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Methods and tools for mining multivariate time series

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Stellingen behorend bij het proefschrift “Methods and Tools for Multivariate Time Series.” van Ricardo Cachucho

1. Biclustering of multivariate time series is a generalization of motif discovery (traditionally univariate) to the multivariate setting. (Chapter 2)
2. Building optimized features automatically is a core idea to improve machine learning methods. (Chapter 4)
3. It is possible to build specific training schedules for individual athletes, in order to optimize performance in competitions, using data-driven regression models. (Chapter 6)
4. Tools such as Bipeline and ClaRe allow an easy access to the whole experimental pipeline of new methods. (Chapter 3 and 5)
5. In many cases, model overfitting is a pointless discussion. Instead of one generalized model, we are moving towards many tailor-fit models, which fit individual subjects.
6. Time series publications receive only modest attention in machine learning venues, when compared to the relevance of time series data in real-world applications.
7. The number of data scientists engaged across industries and academic fields is growing rapidly. Still, they struggle to create a significant impact in their organizations.
8. In many cases, the multidisciplinary background of a data scientist has a strong influence on the success of a project.
9. An academic career in which a person is evaluated on the production volume of scientific writings, tends to encourage intellectual superficiality.
10. More than a regional economical integration, the European Union needs to be considered a world-wide peace project.
11. Madeira is the pearl of the Atlantic.